

Claims:

1. A light-sensitive composition which comprises a polymer comprising a carboxyl group and a polymerizable double bond at the side chain, an organic borate salt, and a hindered amine compound or a protonic acid captor.

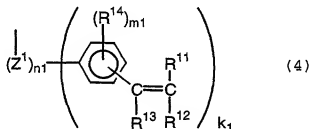
2. The light-sensitive composition according to Claim 1, wherein the composition further comprises an ethylenically unsaturated compound.

3. The light-sensitive composition according to Claim 2, wherein the ethylenically unsaturated compound is a polymerizable compound having two or more polymerizable double bond in the molecule.

4. The light-sensitive composition according to Claim 3, wherein the polymerizable compound is a monomer or an oligomer.

5. The light-sensitive composition according to Claim 1, wherein the polymer is a polymer having a phenyl group to which a vinyl group is substituted at the side chain.

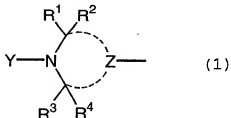
6. The light-sensitive composition according to Claim 1, wherein the polymer is a polymer having a group represented by the following formula (4):



wherein Z^1 represents a linking group; R^{11} , R^{12} and R^{13} each represent a hydrogen atom, a halogen atom, a carboxyl group, a sulfo group, a nitro group, a cyano group, an amide group, an amino group, an alkyl group, an aryl group, an alkoxy

group or an aryloxy group; R^{14} is a substitutable group or atom; n_1 is 0 or 1; m_1 is an integer of 0 to 4; and k_1 is an integer of 1 to 4, at the side chain.

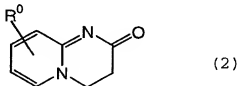
7. The light-sensitive composition according to Claim 1, wherein the hindered amine compound is a compound having at least one structural unit represented by the following formula (1):



wherein R^1 , R^2 , R^3 and R^4 each represent a hydrogen atom, an alkyl group or an aryl group; Z represents an atomic group necessary for forming a nitrogen-containing aliphatic ring; Y represents a hydrogen atom, an alkyl group or an organic residue; among R^1 and R^2 , or among R^3 and R^4 , one of which may be incorporated into Z and provide a double bond.

8. The light-sensitive composition according to Claim 1, wherein the protonic acid captor is a compound which is capable of forming a difficultly soluble salt by bonding to the protonic acid.

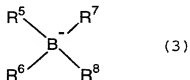
9. The light-sensitive composition according to Claim 1, wherein the protonic acid captor is a compound represented by the following formula (2):



wherein R^0 represents a hydrogen atom, a substituted or unsubstituted alkyl group, a substituted or unsubstituted aryl group, a carboxamide group, a hydroxyl group or a

condensed ring.

10. The light-sensitive composition according to Claim 1, wherein the organic borate salt is a compound having an organic boron anion represented by the following formula (3):



wherein R^5 , R^6 , R^7 and R^8 each represent an alkyl group, an aryl group, an aralkyl group, an alkenyl group, an alkynyl group, a cycloalkyl group or a heterocyclic group.

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11. The light-sensitive composition according to Claim 1, wherein the composition further comprises a sensitizing dye which sensitizes the organic borate salt at a wavelength region of 380 nm to 1300 nm.

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12. The light-sensitive composition according to Claim 1, wherein the composition further comprises a sensitizing dye which sensitizes the organic borate salt at a wavelength region of 380 nm to 410 nm.

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13. The light-sensitive composition according to Claim 1, wherein the composition further comprises a sensitizing dye which sensitizes the organic borate salt at a wavelength region of 750 nm or longer.

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14. The light-sensitive composition according to Claim 1, wherein the composition further comprises a trihaloalkyl-substituted compound.

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15. The light-sensitive composition according to Claim 14, wherein the trihaloalkyl-substituted compound is a nitrogen-containing heterocyclic compound having a trihalomethyl group or a trihalomethylsulfonyl compound.

16. A lithographic printing plate which comprises an aluminum plate and a light-sensitive layer comprising the light-sensitive composition according to Claim 1.

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